BRAIN RESEARCH

VOL. 696 NOS. 1,2 **CONTENTS** **23 OCTOBER 1995**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Guidelines for submission of manuscripts v

Research reports

Tianeptine treatment induces regionally specific changes in monoamines
M. Frankfurt, C.R. McKittrick, B.S. McEwen and V.N. Luine (USA) 1

A confocal approach to the morphofunctional characterization of the transient tyrosine hydroxylase system in the rat suprachiasmatic nucleus
A.A. Battaglia, M. Beltramo, J. Thibault, M. Krieger and A. Calas (France, Italy) 7

Dynamic analysis of ethanol effects on NMDA-evoked dopamine overflow in rat striatum
A.M.-Y. Lin and C.-Y. Chai (Taiwan, R.O.C.) 15

Immunohistochemical determination of rat spinal cord substance P, and antinociceptive effect during development of thiamine deficiency
T. Tadano, T. Asao, T. Aizawa, S. Sakurada, Y. Abe, A. Yonezawa, R. Ando, Y. Arai, H. Kinemuchi and K. Kisara (Japan) 21

Ultrastructural localization and translocation of nitric oxide synthase in the endothelium of the human cerebral artery
S.-i. Fukuda, S. Takaichi, H. Naritomi, N. Hashimoto, I. Nagata, K. Nozaki and H. Kikuchi (Japan) 30

Human hydroxyindole-*O*-methyltransferase in pineal gland, retina and Y79 retinoblastoma cells
M. Bernard, S.J. Donohue and D.C. Klein (USA) 37

S-100β has a neuronal localisation in the rat hindbrain revealed by an antigen retrieval method
Q. Yang, A. Hamberger, H. Hyden, S. Wang, T. Stigbrand and K.G. Haglid (Sweden) 49

Extracellular concentrations of serotonin in the dorsal hippocampus after acute and chronic treatment with citalopram
R. Invernizzi, M. Bramante and R. Samanin (Italy) 62

Muscarinic receptor agonist-induced increases in cytosolic Ca^{2+} concentrations in chick ciliary ganglion cells
M. Sorimachi, K. Furukawa, Y. Abe and N. Akaike (Japan) 67

The effect of aging on efferent nerve fibers regeneration in mice
E. Verdú, M. Butí and X. Navarro (Spain) 76

Alterations in L-type calcium channels in the brain and spinal cord of acutely treated and morphine-tolerant mice
M.A. Bernstein and S.P. Welch (USA) 83

Region-specific alterations of calbindin-D28k immunoreactivity in the rat hippocampus following adrenalectomy and corticosterone treatment
H.J. Krugers, R.M. Medema, F. Postema and J. Korf (The Netherlands) 89

Dual regulation by μ, δ and κ opioid receptor agonists of K^+ conductance of DRG neurons and neuroblastoma × DRG neuron hybrid F11 cells
S.-f. Fan and S.M. Crain (USA) 97

Activation of protein kinase C does not participate in disruption of the blood–brain barrier to albumin during acute hypertension
W.G. Mayhan and S.P. Didion (USA) 106

The neurosteroid 3α,5α-THP has antiseizure and possible neuroprotective effects in an animal model of epilepsy
C.A. Frye (USA) 113

Heterogeneous distribution of neurons containing calbindin D-28k and/or parvalbumin in the rat red nucleus
B. Hontanilla, A. Parent and J.M. Giménez-Amaya (Spain, Canada) 121

Ionic mechanisms underlying burst firing in pyramidal neurons: intracellular study in rat sensorimotor cortex
S. Franceschetti, E. Guatteo, F. Panzica, G. Sancini, E. Wanke and G. Avanzini (Italy) 127

Nitric oxide induces c-*fos* gene expression via cyclic AMP response element binding protein (CREB) phosphorylation in rat retinal pigment epithelium
K. Ohki, K. Yoshida, M. Hagiwara, T. Harada, M. Takamura, T. Ohashi, H. Matsuda and J. Imaki (Japan) 140

Effect of inflammatory agents on electrical resistance across the blood–brain barrier in pial microvessels of anaesthetized rats
A.M. Butt (UK) 145

Imaging the dorsal hippocampus: light reflectance relationships to electroencephalographic patterns during sleep
D.M. Rector, G.R. Poe, M.P. Kristensen and R.M. Harper (USA) 151

The effect of post-asphyxial reoxygenation with 21% vs. 100% oxygen on Na^+,K^+-ATPase activity in striatum of newborn piglets
J.M. Goplerud, S. Kim and M. Delivoria-Papadopoulos (USA) 161

192IgG-saporin-induced immunotoxic lesions of cholinergic basal forebrain system differentially affect glutamatergic and GABAergic markers in cortical rat brain regions
S. Roßner, R. Schliebs and V. Bigl (Germany) 165

Lesions of the medial prefrontal cortex and sexual behavior in the male rat
A. Ågmo, A. Villalpando, Z. Picker and H. Fernández (Mexico) 177

Central nervous stimulants facilitate sexual behavior in male rats with medial prefrontal cortex lesions
A. Ågmo and A. Villalpando (Mexico) 187

(contents continued on p. 274)

0006-8993(19951023)696:1/2;1-9

(contents continued)

Quantitative analysis of factors influencing neuronal necrosis induced by MK-801 in the rat posterior cingulate/retrosplenial cortex
A.S. Fix, D.F. Wozniak, L.L. Truex, M. McEwen, J.P. Miller and J.W. Olney (USA) 194
Inhibitory effects of electrical stimulation of thalamic nucleus submedius area on the rat tail flick reflex
Y.-Q. Zhang, J.-S. Tang, B. Yuan and H. Jia (People's Republic of China) 205
Brain 2-deoxyglucose levels related to maternal behavior-inducing stimuli in the rat
M.C.R. Del Cerro, M.A. Perez Izquierdo, J.S. Rosenblatt, B.M. Johnson, P. Pacheco and B.R. Komisaruk (Spain, USA, Mexico) 213
Local preoptic/anterior hypothalamic warming alters spontaneous and evoked neuronal activity in the magno-cellular basal forebrain
Md.N. Alam, R. Szymusiak and D. McGinty (USA) 221
Effect of extracellular K^+ on the intracellular free Ca^{2+} concentration in leech glial cells and Retzius neurones
P. Hochstrate, C. Piel and W.-R. Schlue (Germany) 231

Short communications

Involvement of class A calcium channels in the KCl induced Ca^{2+} influx in hippocampal synaptosomes
J.O. Malva, A.F. Ambrósio, A.P. Carvalho, C.B. Duarte and C.M. Carvalho (Portugal) 242
Transsynaptic localization of pharyngeal premotor neurons in rat
X. Bao, E.B. Wiedner and S.M. Altschuler (USA) 246
Caffeine attenuates CNS oxygen toxicity in rats
N. Bitterman and S. Schaal (Israel) 250
Dipsogenic effect of pituitary adenylate cyclase activating polypeptide (PACAP38) injected into the lateral hypothalamus
M. Puig de Parada, M.A. Parada and L. Hernández (Venezuela) 254
Effects of inhibitory amino acids on the frequency components in sympathetic nerve discharge
M.E. Clement and R.B. McCall (USA) 258
Morphological abnormalities in the hippocampus of the weaver mutant mouse
M. Sekiguchi, R.S. Nowakowski, Y. Nagato, O. Tanaka, H. Guo, M. Madoka and H. Abe (Japan, USA) 262
Evidence for oxidative stress in Pick disease and corticobasal degeneration
R. Castellani, M.A. Smith, P.L. Richey, R. Kalaria, P. Gambetti and G. Perry (USA) 268

Author Index 272